| NORTH | | PROJECT | | | | LOCATION | | | | | | AZIMUTH BY ALTITUDE METHOD For use of this form, see FM 3-34.331; the proponent agency is TRADOC. | | | | | | |
|--|-----------|--------------------|---|---|-----|----------|------------------------------|---|------|-----------|-----|--|--------------------------|-------------|------|---------|-----|--|
| • | OBSERVER | ORGANIZATION | | | | | LATIT | LATITUDE | | LONGITUDE | | ST | STATION | | | | | |
| | | MARK | | | | | INSTRUMENT (Number and type) | | | | | ST | STANDARD TIME (Meridian) | | | | | |
| | | CELESTIAL BODY(S) | | | | | WATO | H FAST (-) SLOW (+) | | | | W | WATCH COMPARED (Time) | | | | | |
| | | DATE (YYYYMMDD) | | | | OBSER\ | /ER | I:R | | | | WEATHER | | | | | | |
| | | | | | | | ANGLE | HOR. AN | | | | GLE | | | | RT. ANG | GLE | |
| Mean | | | 0 | , | " | 0 | , , | 0 , | " | 0 | , | " | 0 | , | " 0 | , | " | |
| Parallax | | | | | | | | | | | | | | | | | | |
| Mean refraction | | | | | | | | | | | | | | | | | | |
| h (sum) | | | | | | | | | | | | | | | | | | |
| | | | HRS | | MIN | 1. | SEC. | HRS. | MI | N. | SE | C | HRS | . N | IIN. | SEG | С. | |
| Mean time Watch correction | | | | | | | | | | | | | | | | | | |
| | orrection | | | | | | | | | | | | | | | | | |
| TZC | 1 (IJT) | | | | | | | | | | | | | | | | | |
| Universal time (UT) $\delta \text{ at O}^{h} \text{ UT} \qquad \qquad \pm$ | | | | 0 | | , | , | 0 | | , | | " | | 0 | , | | " | |
| UT X d var. per hr. | | | | | | | | | | | | | | | | | | |
| δ | * | ± | | | | | | | | | | | | | | | | |
| h | | | | | | | | | | | | | | | | | | |
| φ | | ± | | | | | | | | | | | | | | | | |
| $\sin \delta$ | | ± | | | | | | | | | | | | | | | | |
| Sin h | | + | | | | | | | | | | | | | | | | |
| Sin φ | | + | | | | | | | | | | | | | | | | |
| Cos h | | ± | | | | | | | | | | | | | | | | |
| Cos ϕ | | ± | | | | | | | | | | | | | | | | |
| Cos A | | ± | | | | | | | 1 | | ı | | | | | T | | |
| A (E or | W) | | | 0 | | ′ | , | 0 | | | | | | 0 | , | | " | |
| Azimuth | of S | | | | | | | | | | | | | | | | | |
| Angle, M | Mark to S | - | | | | | | | | | | | | | | | | |
| True Az | . to Mark | | | | | | | | | | | | | | | | | |
| Mean true azimuth to Mark | | | 0 | | , | , | _ | | | | sin | δ - sin h : | sin ø | | | | | |
| Grid correction | | | | | | | | $\cos A = \frac{\sin \delta - \sin h \sin \phi}{\cos h \cos \phi}$ | | | | | | | | | | |
| Grid azimuth | | | | | | | | Computation = Three sets are computed separately | | | | | | | | | | |
| Mag. azimuth to Mark | | | | | | | | for check, refraction and parallax corrections as obtained from FM 3-34.331. Apply watch correction to observed | | | | | | | | | | |
| Mag. de | | | | | | | | <u> </u> | mean | time. | | | | ction to ur | | | | |
| | | if north, (-) in | | | | | | | | h. | | | | | | | | |
| COMPUTED BY | | | st of north. If cos A is (-), A DATE (YYY) | | | | | | | | | | DATE (YYYYMMDD) | | | | | |
| | | | | | | | | | | | | | | | | | | |